$O2DO$

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/583,200

DATE: 06/08/2000
TIME: 14:34:38

ENTERED

Input Set : A:\-157-2.app
Output Set: N:\CRF3\06082000\I583200.raw

```
   4 <110> APPLICANT: Fikes, John D.
   5         Sette, Alessandro
   6         Sidney, John
   7         Southwood, Scott
   8         Celis, Esteban
   9         Keogh, Elissa A.
  10         Chesnut, Robert
  11         Epimmune Inc.
  13 <120> TITLE OF INVENTION: HLA Class I A2 Tumor Associated Antigen
  14         Peptides and Vaccine Compositions
  17 <130> FILE REFERENCE: 018623-015720US
C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/583,200
C--> 20 <141> CURRENT FILING DATE: 2000-05-30
  22 <150> PRIOR APPLICATION NUMBER: US 09/016,361
  23 <151> PRIOR FILING DATE: 1998-01-30
  25 <150> PRIOR APPLICATION NUMBER: US 60/036,696
  26 <151> PRIOR FILING DATE: 1998-01-31
  28 <160> NUMBER OF SEQ ID NOS: 57
  30 <170> SOFTWARE: FastSEQ for Windows Version 3.0
  32 <210> SEQ ID NO: 1
  33 <211> LENGTH: 10
  34 <212> TYPE: PRT
  35 <213> ORGANISM: Artificial Sequence
  37 <220> FEATURE:
  38 <223> OTHER INFORMATION: CEA.233V10
  40 <400> SEQUENCE: 1
  41  Val Leu Tyr Gly Pro Asp Ala Pro Thr Val
  42   1               5                   10
  44 <210> SEQ ID NO: 2
  45 <211> LENGTH: 9
  46 <212> TYPE: PRT
  47 <213> ORGANISM: Artificial Sequence
  49 <220> FEATURE:
  50 <223> OTHER INFORMATION: CEA.605V9
  52 <400> SEQUENCE: 2
  53  Tyr Leu Ser Gly Ala Asn Leu Asn Val
  54   1               5
  56 <210> SEQ ID NO: 3
  57 <211> LENGTH: 9
  58 <212> TYPE: PRT
  59 <213> ORGANISM: Artificial Sequence
  61 <220> FEATURE:
  62 <223> OTHER INFORMATION: CEA.687
  64 <400> SEQUENCE: 3
  65  Ala Thr Val Gly Ile Met Ile Gly Val
  66   1               5
  68 <210> SEQ ID NO: 4
```

RAW SEQUENCE LISTING   DATE: 06/08/2000
PATENT APPLICATION: US/09/583,200   TIME: 14:34:38

        Input Set : A:\-157-2.app
        Output Set: N:\CRF3\06082000\I583200.raw

69 <211> LENGTH: 11
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: p53.25V11
76 <400> SEQUENCE: 4
77 Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Val
78   1   5   10
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 9
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: p53.139L2
88 <400> SEQUENCE: 5
89 Lys Leu Cys Pro Val Gln Leu Trp Val
90   1   5
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 9
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: p53.139L2B3
100 <400> SEQUENCE: 6
101 Lys Leu Asx Pro Val Gln Leu Trp Val
102   1   5
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 9
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: p53.149L2
112 <400> SEQUENCE: 7
113 Ser Leu Pro Pro Pro Gly Thr Arg Val
114   1   5
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 9
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: p53.149M2
124 <400> SEQUENCE: 8
125 Ser Met Pro Pro Pro Gly Thr Arg Val
126   1   5
128 <210> SEQ ID NO: 9
129 <211> LENGTH: 9
130 <212> TYPE: PRT
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:

RAW SEQUENCE LISTING   DATE: 06/08/2000
PATENT APPLICATION: US/09/583,200   TIME: 14:34:38

Input Set : A:\-157-2.app
Output Set: N:\CRF3\06082000\I583200.raw

```
134 <223> OTHER INFORMATION: Her2/neu.369L2V9
136 <400> SEQUENCE: 9
137  Lys Leu Phe Gly Ser Leu Ala Phe Val
138    1              5
140 <210> SEQ ID NO: 10
141 <211> LENGTH: 9
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Her2/neu.369V2V9
148 <400> SEQUENCE: 10
149  Lys Val Phe Gly Ser Leu Ala Phe Val
150    1              5
152 <210> SEQ ID NO: 11
153 <211> LENGTH: 10
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Her2/neu.773
160 <400> SEQUENCE: 11
161  Val Met Ala Gly Val Gly Ser Pro Tyr Val
162    1              5                 10
164 <210> SEQ ID NO: 12
165 <211> LENGTH: 9
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Her2/neu.5
172 <400> SEQUENCE: 12
173  Ala Leu Cys Arg Trp Gly Leu Leu Leu
174    1              5
176 <210> SEQ ID NO: 13
177 <211> LENGTH: 9
178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: MAGE3.271
184 <400> SEQUENCE: 13
185  Phe Leu Trp Gly Pro Arg Ala Leu Val
186    1              5
188 <210> SEQ ID NO: 14
189 <211> LENGTH: 9
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Her2/neu.48
196 <400> SEQUENCE: 14
197  His Leu Tyr Gln Gly Cys Gln Val Val
198    1              5
```

RAW SEQUENCE LISTING   DATE: 06/08/2000
PATENT APPLICATION: US/09/583,200   TIME: 14:34:38

Input Set : A:\-157-2.app
Output Set: N:\CRF3\06082000\I583200.raw

```
200 <210> SEQ ID NO: 15
201 <211> LENGTH: 9
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Her2/neu.435
208 <400> SEQUENCE: 15
209  Ile Leu His Asn Gly Ala Tyr Ser Leu
210    1                   5
212 <210> SEQ ID NO: 16
213 <211> LENGTH: 9
214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: CEA.691
220 <400> SEQUENCE: 16
221  Ile Met Ile Gly Val Leu Val Gly Val
222    1                   5
224 <210> SEQ ID NO: 17
225 <211> LENGTH: 9
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Her2/neu.369
232 <400> SEQUENCE: 17
233  Lys Ile Phe Gly Ser Leu Ala Phe Leu
234    1                   5
236 <210> SEQ ID NO: 18
237 <211> LENGTH: 9
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: MAGE3.112
244 <400> SEQUENCE: 18
245  Lys Val Ala Glu Leu Val His Phe Leu
246    1                   5
248 <210> SEQ ID NO: 19
249 <211> LENGTH: 9
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: CEA.24V9
256 <400> SEQUENCE: 19
257  Leu Leu Thr Phe Trp Asn Pro Pro Val
258    1                   5
260 <210> SEQ ID NO: 20
261 <211> LENGTH: 10
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial Sequence
```

```
RAW SEQUENCE LISTING                          DATE: 06/08/2000
PATENT APPLICATION:  US/09/583,200            TIME: 14:34:38

Input Set : A:\-157-2.app
Output Set: N:\CRF3\06082000\I583200.raw
```

```
265 <220> FEATURE:
266 <223> OTHER INFORMATION: MAGE3.160
268 <400> SEQUENCE: 20
269  Leu Val Phe Gly Ile Glu Leu Met Glu Val
270  1               5                  10
272 <210> SEQ ID NO: 21
273 <211> LENGTH: 11
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: MAGE3.159
280 <400> SEQUENCE: 21
281  Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val
282  1               5                  10
284 <210> SEQ ID NO: 22
285 <211> LENGTH: 9
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Her2/neu.689
292 <400> SEQUENCE: 22
293  Arg Leu Leu Gln Glu Thr Glu Leu Val
294  1               5
296 <210> SEQ ID NO: 23
297 <211> LENGTH: 9
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Her2/neu.665
304 <400> SEQUENCE: 23
305  Val Val Leu Gly Val Val Phe Gly Ile
306  1               5
308 <210> SEQ ID NO: 24
309 <211> LENGTH: 10
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: MAGE2.157
316 <400> SEQUENCE: 24
317  Tyr Leu Gln Leu Val Phe Gly Ile Glu Val
318  1               5                  10
320 <210> SEQ ID NO: 25
321 <211> LENGTH: 10
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Her2/neu.952
328 <400> SEQUENCE: 25
329  Tyr Met Ile Met Val Lys Cys Trp Met Ile
```

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.

```
                    VERIFICATION SUMMARY                DATE: 06/08/2000
                    PATENT APPLICATION:  US/09/583,200  TIME: 14:34:39

                    Input Set : A:\-157-2.app
                    Output Set: N:\CRF3\06082000\I583200.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
```